

2848



Diag. Cht. No. 8502-1

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

O. Stettmann

Superintendent.

State: *Alaska*

DESCRIPTIVE REPORT.

Hydro Sheet No. *2848*

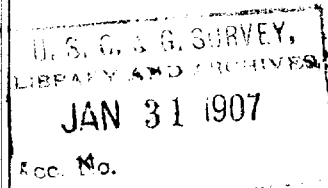
LOCALITY:

Kayak Entrance,
Controller Bay

1906

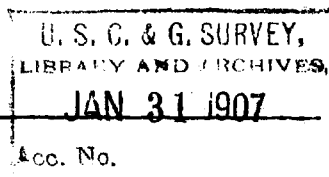
CHIEF OF PARTY:

H. W. Rhodes



2848

Descriptive Report to accompany Hydrographic Sheet of Kayak Entrance,
Controller Bay, Alaska.



The hydrography of the approach and entrance to Kayak Village was executed by the party on board the McARTHUR between June 7th. and June 20th., 1906.

Tides were observed on a plain staff gauge in the bight just North of Kayak Village, and the gauge connected by simultaneous readings with the B.M. at the North end of Wingham Island, to which is referred the plain of reference for Controller Bay.

Hydrographic signals were determined by triangulation, except in one or two instances where positions were taken from the plane-table sheet.

By an error in checking off proposed lines on the progress sheet as having been run, several lines abreast the Village of Kayak were omitted, but as the depths there run quite evenly, a sufficiently complete development will be given by the lines run.

Owing to unfavorable weather conditions, a considerable number of the whaleboat lines were run without the aid of a boat sheet except for terminal positions, and owing to the lack of sufficient assistance, only occasional positions in the ship's work could be plotted while the work was in progress.

Sailing directions cannot be given until the soundings have been plotted.

Soundings are very uneven in the entrance, and much trouble has been experienced in the past by steamers drawing from 15 feet to 18 feet, in attempting the entrance. Reports are not clear as to the stage of tide or points where they grounded, but several

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of them have undoubtedly brought up on the shoal lying one mile due south of signal "patch."

Owing to the limited time allotted for this work, it was impossible to carry the soundings through the channel to the north of Kayak Island but the two lines run up inside the Island will probably show three fathoms at low water, and the channel at the north end has been used by a steamer drawing 18 feet, but the stage of the tide at the time is not known.

Tidal currents both ebb and flood run with considerable velocity at times in the channel abreast Kayak Village; the estimated maximum velocity being three knots.

Northerly and N.E'ly gales make enough sea in the anchorage abreast the village to make it unsafe for vessels with a narrow margin of draught to lie there, but the swell in southerly and south-westerly weather does not appear to come around the point to a dangerous extent.

All of the freight for the Controller Bay country and a considerable part of that for Catalla, is still landed at this port.

Compass Declinometer observations were made at triangulation station "Pen" on the southeast corner of Wingham Island.

Respectfully submitted,

A. W. Rhodes.

Assistant, Chief of Party.

Department of Commerce and Labor
COAST AND GEODETIC SURVEY
Washington

NOV 30 1907

Hyd. Sheet 2848, Rhodes 1906 -

Kayak Entrance to Controller Bay

The results of this survey are inconclusive on account of the very irregular glaciated (?) surface of the bottom in and off the Entrance.

The smooth, nearly level surfaces of the sand and mud deposits in Controller Bay are not found over this area, as was expected.

Further examination will be required for the development of maps available depth into Kayak P.C. - Otherwise the work is satisfactory -

J. Watkins

8-2-07